BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for the work of: Improvements to road, drain and footpath in main and

Modified Estimate Est Cost Rs. 5000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33, PWD SR 2016-17**	Cum							
	U shape drain resetting								
	Deenclave main road		2	18.00		1.80	64.80		
	4th cross		2	122.00		1.80	439.20		
	Sahakarangara 11th Cross		2	162.00		1.80	583.20		
	12th and 13th Cross		2	47.00		1.80	169.20		
	Defence colony 1st main		2	160.00		1.80	576.00		
	Ward office road		2	90.00		1.80	324.00		
			2	40.00		1.80	144.00		
							2300.40		
	Covering Slab For for desilting								
	Deenclave main road		2	18.00		0.90	32.40		
	4th cross		2	122.00		0.90	219.60		
	Sahakarangara								
	11th Cross		2	162.00		0.90	291.60		
	12th and 13th Cross		2	47.00		0.90	84.60		
	Defence colony 1st main		2	160.00		0.90	288.00		
	Ward office road		2	90.00		0.90	162.00		
			2	40.00		0.90	72.00		
							1150.20		
	Deducte 45% B.S.Slab (Missing)				1a		517.59		
	Deducte 15% precast.Slab (Missing)				1b		230.04		
							402.57		
	Basic Rate	76.00					**2702.97**	80.56	**217751.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 142 / Item No. 19.10, PWD SR 2016-17	Cum							
			4	18.00	0.30	0.30	6.48		
			2	18.00	0.30	0.35	3.78		
			2	121.00	0.30	0.30	21.78		
			2	121.00	0.30	0.35	25.41		

Desilting			2	165.00	0.60	0.60	118.80	
Earthwork			4	165.00	0.30	0.35	69.30	
Desilting			2	47.00	0.60	0.40	22.56	
Earthwork			4	47.00	0.30	0.30	16.92	
For culvert			3	6.00	2.00	1.15	41.40	
Defence colony 1st main Earthwork			2	160.00	0.30	0.30	28.80	
Ward office road Earthwork			2	90.00	0.30	0.30	16.20	
			2	40.00	0.30	0.30	7.20	
Defence colony 1st main Desilting			2	160.00	0.45	0.40	57.60	
Ward office road Desilting			2	90.00	0.45	0.40	32.40	
			2	40.00	0.45	0.40	14.40	
	Basic Rate	82.00					**483.03**	86.92	**41985.00**
	Area Weightage @ 6%	4.92						
	Total	**86.92**						

3 KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2016-17)

		Cum						
			2	18.00	0.30	0.15	1.62	
			2	18.00	0.20	0.15	1.08	
			2	18.00	0.30	0.15	1.62	
D Block Sahakarangara								
			2	162.00	0.20	0.15	9.72	
			2	162.00	0.30	0.15	14.58	
			2	162.00	0.30	0.15	14.58	
			2	47.00	0.20	0.15	2.82	
			2	47.00	0.30	0.15	4.23	
For culvert			3	6.00	2.00	0.15	5.40	
Defence colony 1st main Earthwork			2	160.00	0.30	0.15	14.40	
Ward office road Earthwork			2	90.00	0.30	0.15	8.10	
			2	40.00	0.30	0.15	3.60	
	Basic Rate	5046.00					**81.75**	5348.76	**437261.00**
	Area Weightage @ 6%	302.76						
	Total	**5348.76**						

KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.27.1, PWD SR 2016-17

Sqm

Defence colony 1st main Earthwork	2	18.00	0.40	14.40			
	2	122.00	0.40	97.60			
	2	162.00	0.40	129.60			
	2	47.00	0.40	37.60			
Ward office road Earthwork	2	160.00	0.40	128.00			
	2	90.00	0.40	72.00			
	2	40.00	0.40	32.00			
					511.20	993.22	**507734.00**

Basic Rate	937.00
Area Weightage @ 6%	56.22
Total	**993.22**

5 KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.28, PWD SR 2016-17

sqm

Defence colony 1st main Earthwork	2	18.00	0.40	14.40			
	2	122.00	0.40	97.60			
	2	162.00	0.40	129.60			
	2	47.00	0.40	37.60			
Ward office road Earthwork	2	160.00	0.40	128.00			
	2	90.00	0.40	72.00			
	2	40.00	0.40	32.00			
					511.20	758.96	**387980.00**

Basic Rate	716.00
Area Weightage @ 6%	42.96
Total	**758.96**

6 KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 13 / Item No. 5.9, PWD SR 2016-17

cum

		3x2	6.00	0.45	0.75	12.15		
						12.15	5305.30	**64459.00**
	Basic Rate	5005.00						
	Area Weightage @ 6%	300.30						
	Total	**5305.30**						
7	KSRB 4.2.7 : Providing and laying in position **reinforced cement concrete of design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc.,** including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 Page No. 13 / Item No. 4.12, PWD SR 2016-17	Cum						
	Dee enclave		2	18.00	0.10	0.075	0.27	
	Dee enclave 4th cross		2	18.00	0.20	0.075	0.54	
	Dee enclave 4th cross		2	122.00	0.10	0.075	1.83	
	Road Side		2	122.00	0.20	0.075	3.66	
	Sahakaranagara D Block 11th cross		2	162.00	0.10	0.075	2.43	
	Sahakaranagara D Block 11th cross		2	162.00	0.20	0.075	4.86	
	Sahakaranagara D Block 12th cross		2	47.00	0.10	0.075	0.71	
			2	47.00	0.20	0.075	1.41	
	Defence colony 1st main Earthwork		4	160.00	0.20	0.075	9.60	
	Ward office road Earthwork		4	90.00	0.20	0.075	5.40	
			4	40.00	0.20	0.075	2.40	
	Handi Gudu Cross Roads		3	20.00	4.00	0.10	24.00	
						57.11	6749.02	**385403.00**
	Basic Rate	6367.00						
	Area Weightage @ 6%	382.02						
	Total	**6749.02**						

	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 113 / Item No. 15.1, PWD SR 2016-17	Sqm					
			3x2	6.00	0.75	27.00	
						27.00	174.90	**4722.00**
	Basic Rate	**165.00**					
	Area Weightage @ 6%	9.90					
	Total	**174.90**					
9	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. Page No. 25 / Item No. 5.31.2 PWD SR 2016-17	Cum					
	Missing slabs Qty vide item No. 01a					517.59	
	Basic Rate	779.00				**517.59**	825.74	**427395.00**
	Area Weightage @ 6%	46.74					
	Total	**825.74**					
10	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 Page No. 24 / Item No. 5.22, PWD SR 2016-17	RMtr					
			2	30	3.00	180.00	
			2	143	3.00	858.00	
			2	207	3.00	1242.00	
			2	99	3.00	594.00	
	Basic Rate	35.00				**2874.00**	37.10	**106625.00**
	Area Weightage @ 6%	2.10					
	Total	**37.10**					
11	Machine cutting (Data rates)	RMtr					
				Vide ite No. 10		2874.00	
	Data rate	60.00				**2874.00**	60.00	**172440.00**
12	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications .KBS 5.1.13	RMtr					
				Item No. 09		**517.59**	577.70	**299012.00**
	Basic Rate	545.00					
	Area Weightage @ 6%	32.70					
	Total	**577.70**					

Providing and fixing pre cast solid concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete. Page No. 25 / Item No. 5.29.10, PWD SR 2016-17 — no

		2	18.00		36.00		
		2	122.00		244.00		
		2	162.00		324.00		
		2	47.00		94.00		
		2	47.00		94.00		
Defence colony 1st main		2	160.00		320.00		
Ward office road		2	90.00		180.00		
		2	40.00		80.00		
					1372.00		
					3049		
Deducte 20%					**610**		
					2439	385.84	**941107.00**

Basic Rate	364.00
Area Weightage @ 6%	21.84
Total	**385.84**

14 KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 122 / Item No. 15.80, PWD SR 2016-17 — Sqm

		2	18.00	0.40	14.40			
		2	122.00	0.40	97.60			
		2	162.00	0.40	129.60			
		2	47.00	0.40	37.60			
		2	47.00	0.40	37.60			
Defence colony 1st main		2	160.00	0.40	128.00			
Ward office road		2	90.00	0.40	72.00			
		2	40.00	0.40	32.00			
	Sqm				**548.80**	27.56	**15125.00**	

Basic Rate	**26.00**
Area Weightage @ 6%	1.56
Total	**27.56**

KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 122 / Item No. 15.81, PWD SR 2016-17 — Sqm

Vide Item no. 14 — **548.80** — 69.96 — **38394.00**

Basic Rate	**66.00**
Area Weightage @ 6%	3.96
Total	**69.96**

16 KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. (25 kg per sq mtr) Page No. 15 / Item No. 19.97, PWD SR 2016-17 — quintal

10 — 0.45 — 0.45 — 25.00 — **50.63**

0.51 — 6711.92 — **3398.00**

Basic Rate	6332.00
Area Weightage @ 6%	379.92
Total	**6711.92**

17 A) KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (Page No. 132 / Item No. 17.1) — **cum**

Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 10.00 Km etc complete as per specifications and directions

Qty Item No. 02 — 483.03

300.00

783.03 — 106.00 — **83001.00**

Historical Debries Sahakaranagara D Block

2.5x1.28x10	**32.00**
Basic Rate	**68.00**
	100.00

	Area Weightage @ 6%	6.00		
	Total	**106.00**		
E1	Providing and fixing 10 cm thick pre cast reinforced concrete slab as per design and drawing material cost, transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials	Sqm		
	Missing slabs Qty vide item No. 01b		**230.04**	1777.75 **408954.00**
	Data Rate	1777.75		
	Sub Total			**4542746.00**
19	Add KRIDL charges 8%+Labour Cess 1%+1%			**454274.60**
	QC Charges			**2979.40**
	Miscellaneous & Rounding off			
			Total	**5000000.00**

(Rupees Fifty Lakhs only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08

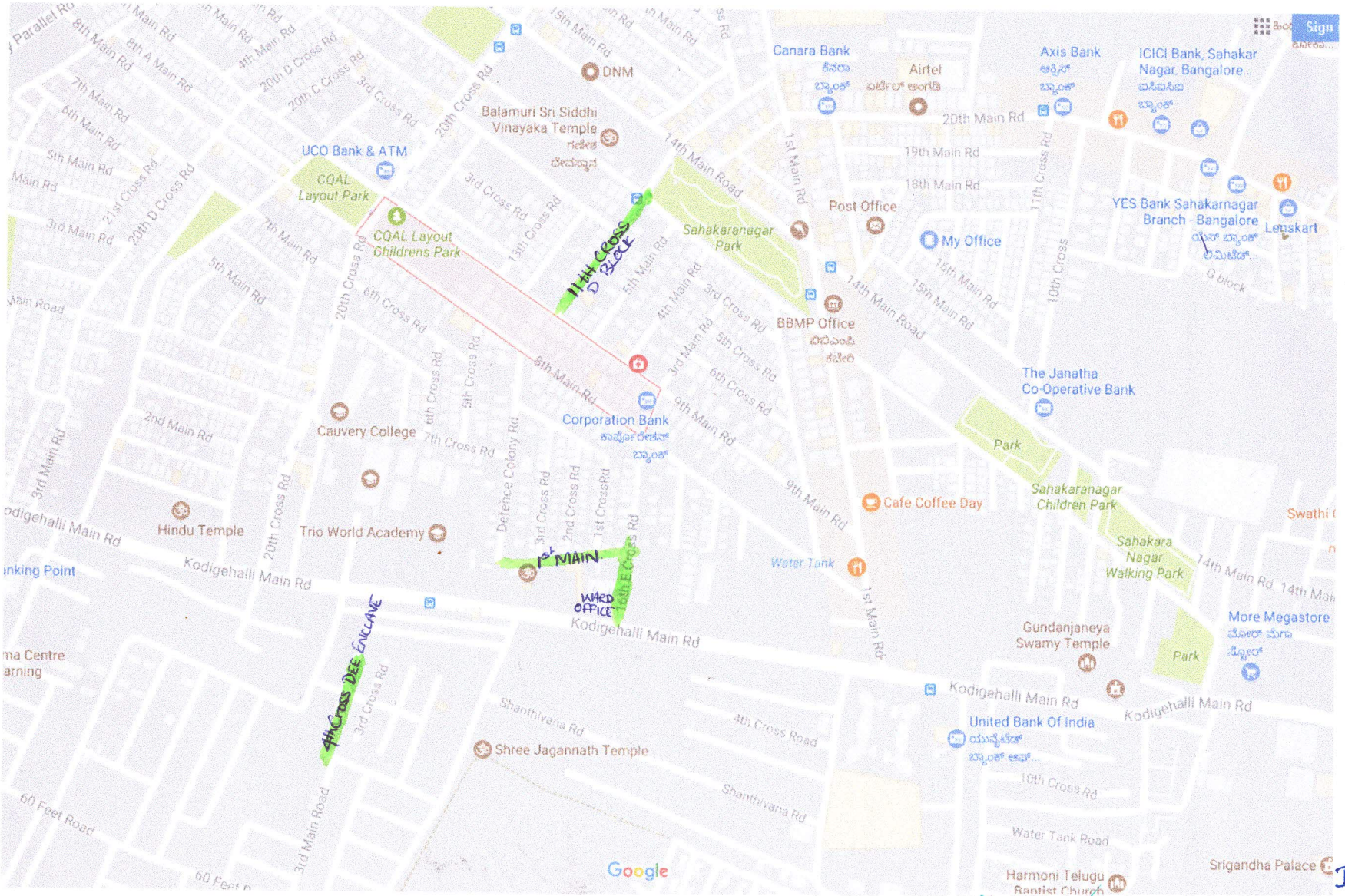
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

14/11
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

"Modified
Technical Sanction"
Accorded For 50.00 lakh Rs.
Head of A/C R311
CER NO : "5" Dt: 20.11.17

TA CE (YNK)

IMPROVEMENTS TO ROADS DRAINS AND FOOTPATHS IN MAIN AND CROSS ROADS OF SAHAKARNAGAR D BLOCK IN WARD NO 8 KODIGEHALLI



IMPROVEMENTS OF DRAIN WITH COVERING SLAB AND KERB STONE